

CLAIMS

We claim as our invention:

1. A golf club head comprising:

a face member composed of a metal material, the face member comprising a face

5 plate for striking a golf ball having an exterior surface and an interior surface, the face plate
extending from a heel section of the golf club head to a toe section of the golf club head, a face
extension extending laterally inward from a perimeter of the face plate, and an interior tubing for
receiving a shaft, the interior tubing engaging an upper portion of the face extension;

a crown secured to the upper portion of the face extension at a distance ranging

10 from 0.2 inch to 1.0 inch from the perimeter of the face plate; and

a sole secured to a lower portion of the face extension at a distance ranging from

0.2 inch to 1.0 inch from the perimeter of the face plate,

wherein the face plate has a plurality of concentric regions of varying thickness

with the thickest region in the center, and wherein the golf club head has a volume no greater

15 than 400 cubic centimeters and a coefficient of restitution of ranging from 0.80 to 0.93 under
standard USGA conditions.

2. The golf club head according to claim 1, wherein the plurality of concentric regions of

varying thickness of the face plate include a central region having a base thickness ranging from

0.090 inch to 0.110 inch, a first concentric region having a first thickness ranging from 0.082

20 inch to 0.097 inch, and a second concentric region having a second thickness ranging from 0.070
inch to 0.094 inch, wherein the base thickness is greater than the first thickness, and the first
thickness is greater than the second thickness.

3. The golf club head according to claim 1, wherein the face member is composed of a titanium alloy.
 4. The golf club head according to claim 1, wherein the face member is composed of a vitreous metal.
- 5 5. A golf club head comprising:
- a face member composed of a metal material, the face member comprising a face plate for striking a golf ball having an exterior surface and an interior surface, the face plate extending from a heel section of the golf club head to a toe section of the golf club head, a face extension extending laterally inward from a perimeter of the face plate, and an interior tubing for receiving a shaft, the interior tubing engaging an upper portion of the face extension;
- 10 a crown secured to the upper portion of the face extension at a distance ranging from 0.2 inch to 1.0 inch from the perimeter of the face plate; and
- a sole secured to a lower portion of the face extension at a distance ranging from 0.2 inch to 1.0 inch from the perimeter of the face plate,
- 15 wherein the face plate comprises at least a central circular region having a base thickness, a first concentric region having a first thickness, a second concentric region having a second thickness, a third concentric region having a third thickness, and a periphery region having a fourth thickness, wherein the base thickness is greater than the first thickness, the first thickness is greater than the second thickness, the second thickness is greater than the third thickness, and the third thickness is greater than the fourth thickness, and wherein the golf club
- 20 head has a volume no greater than 400 cubic centimeters and a coefficient of restitution of

ranging from 0.80 to 0.93 under standard USGA conditions.

6. A golf club head comprising:

a face member composed of a metal material, the face member comprising a face plate for striking a golf ball having an exterior surface and an interior surface, the face plate extending from a heel section of the golf club head to a toe section of the golf club head, a face extension extending laterally inward from a perimeter of the face plate, and an interior tubing for receiving a shaft, the interior tubing engaging an upper portion of the face extension;

a crown secured to the upper portion of the face extension at a distance ranging from 0.2 inch to 1.0 inch from the perimeter of the face plate; and

10 a sole secured to a lower portion of the face extension at a distance ranging from 0.2 inch to 1.0 inch from the perimeter of the face plate;

wherein the upper portion of the face extension has a hosel section extending about the interior tubing, the hosel section having a width greater than the entirety of the upper portion of the face extension; and wherein the golf club head has a volume no greater than 400
15 cubic centimeters and a coefficient of restitution of ranging from 0.80 to 0.93 under standard USGA conditions.

7. The golf club head according to claim 6, wherein the face extension has a bore section extending about the interior tubing, the bore section having a width greater than the entirety of the lower portion of the face extension.

8. The golf club head according to claim 6, wherein the face extension has a heel wall substantially perpendicular to the face plate, the heel wall disposed in the heel section of the club head.
9. The golf club head according to claim 6, wherein the face extension has a toe wall arcing inward from the face plate, the toe wall disposed in the toe section of the club head.
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